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CLAIMS:

- 1. A disk drive, comprising:
- a first read or write head,
- a first positioning mechanism for the first head,
- a first spindle motor for rotating a disk having a recording surface,
- a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,
 - a second read or write head,
 - a second positioning mechanism for the second head,
 - a second spindle motor for rotating a disk having a recording surface,
- a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and
- a single electronic interface connection which transfers communications to and from the host device and both the first and second microprocessor.
 - 2. A disk drive, comprising:
 - a first read or write head.
 - a first positioning mechanism for the first head,
 - a first spindle motor for rotating a disk having a recording surface,
- a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,
 - a second read or write head,
 - a second positioning mechanism for the second head,

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- a second spindle motor for rotating a disk having a recording surface,
- a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and
- a single electronic power connection which transfers electronic power from the host device to both the first and second microprocessor.
 - 3. A disk drive, comprising:
 - a first read or write head,
 - a first positioning mechanism for the first head,
 - a first spindle motor for rotating a disk having a recording surface,
- a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,
 - a second read or write head.
 - a second positioning mechanism for the second head,
 - a second spindle motor for rotating a disk having a recording surface,
- a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and
- a single printed circuit board which provides electrical interconnecting circuitry between a host device electronic interface and both the first and second microprocessors
 - 4. A disk drive, comprising:
 - a first read or write head,
 - a first positioning mechanism for the first head,
 - a first spindle motor for rotating a disk having a recording surface,

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a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,

- a second read or write head,
- a second positioning mechanism for the second head,
- a second spindle motor for rotating a disk having a recording surface,
- a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and a single mounting means for attaching the drive chassis to the host device chassis.